1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(6, 6) \text{ and } (9, 11)$$

A. $m \in [-7.67, 0.33]$ $b \in [25.8, 29.2]$

B. $m \in [-0.33, 8.67]$ $b \in [3.7, 5.9]$

C. $m \in [-0.33, 8.67]$ $b \in [-1, 1.2]$

D. $m \in [-0.33, 8.67]$ $b \in [-5.2, -2.9]$

E. $m \in [-0.33, 8.67]$ $b \in [1.1, 2.9]$

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2. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{3x-5}{4} - \frac{4x-7}{3} = \frac{-8x-9}{8}$$

A. $x \in [3.9, 8.9]$

B. $x \in [-0.32, 4.68]$

C. $x \in [-29.4, -25.4]$

D. $x \in [-8.3, -1.3]$

E. There are no real solutions.

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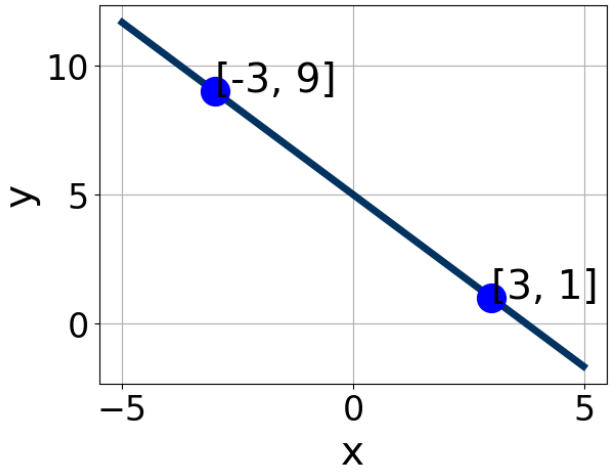
3. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [1.6, 5.3]$, $B \in [-3.06, -2.19]$, and $C \in [-20, -12]$

B. $A \in [1.6, 5.3]$, $B \in [2.68, 3.08]$, and $C \in [15, 18]$

C. $A \in [1.1, 3.6]$, $B \in [-1.07, -0.62]$, and $C \in [-7, 0]$

D. $A \in [-9, -3]$, $B \in [-3.06, -2.19]$, and $C \in [-20, -12]$

E. $A \in [1.1, 3.6]$, $B \in [0.83, 1.71]$, and $C \in [1, 13]$

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4. Solve the equation below. Then, choose the interval that contains the solution.

$$-9(-14x + 11) = -18(7x - 6)$$

A. $x \in [0.03, 0.04]$

B. $x \in [-0.03, 0.01]$

C. $x \in [0.82, 0.83]$

D. $x \in [-0.07, -0.03]$

E. There are no real solutions.

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $7x - 4y = 15$ and passing through the point $(2, -5)$.

A. $m \in [0.08, 1.18]$ $b \in [-6.79, -5.47]$

B. $m \in [-1.15, 0.33]$ $b \in [-7.55, -6.33]$

C. $m \in [-1.15, 0.33]$ $b \in [-4.77, -3.59]$

D. $m \in [-1.78, -1]$ $b \in [-4.77, -3.59]$

E. $m \in [-1.15, 0.33]$ $b \in [3.2, 4.62]$

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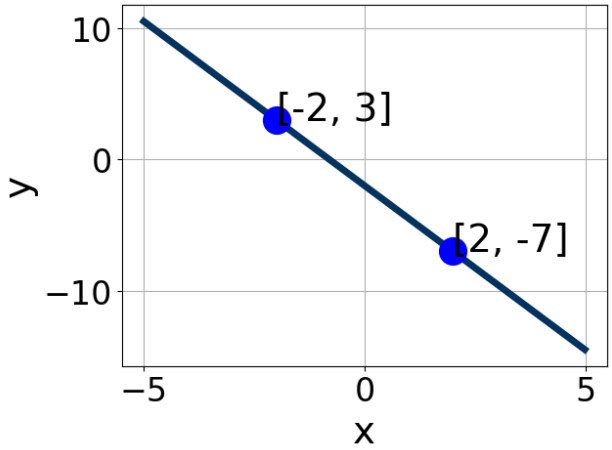
6. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [0.4, 4.1]$, $B \in [0.95, 1.55]$, and $C \in [-2.54, -1.9]$

B. $A \in [-7.1, -3.9]$, $B \in [-2.17, -1.4]$, and $C \in [3.28, 4.82]$

C. $A \in [4.8, 7.2]$, $B \in [1.19, 2.03]$, and $C \in [-5.16, -3.1]$

D. $A \in [4.8, 7.2]$, $B \in [-2.17, -1.4]$, and $C \in [3.28, 4.82]$

E. $A \in [0.4, 4.1]$, $B \in [-1.28, -0.62]$, and $C \in [0.68, 2.36]$

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7. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Perpendicular to $5x + 4y = 13$ and passing through the point $(4, 7)$.

A. $m \in [0.68, 1.24]$ $b \in [-3.86, -3.23]$

B. $m \in [0.68, 1.24]$ $b \in [3.48, 4.1]$

C. $m \in [-1.73, -0.68]$ $b \in [10.01, 10.27]$

D. $m \in [0.82, 1.33]$ $b \in [3.48, 4.1]$

E. $m \in [0.68, 1.24]$ $b \in [2.56, 3.07]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-14(-5x - 19) = -18(-13x - 11)$$

A. $x \in [0.1, 0.7]$

B. $x \in [-2.5, -0.8]$

C. $x \in [1.9, 3]$

D. $x \in [-3.4, -2]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-2, 11) \text{ and } (-7, -2)$$

A. $m \in [1.6, 11.6]$ $b \in [12.6, 15.6]$

B. $m \in [-4.6, 0.4]$ $b \in [-23.9, -16.6]$

C. $m \in [1.6, 11.6]$ $b \in [-16.3, -16.1]$

D. $m \in [1.6, 11.6]$ $b \in [15, 18.1]$

E. $m \in [1.6, 11.6]$ $b \in [3.5, 6]$

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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{3x - 4}{8} - \frac{-8x + 5}{3} = \frac{8x + 7}{5}$$

A. $x \in [1.8, 5.3]$

B. $x \in [-1.2, 0.6]$

C. $x \in [0.6, 2]$

D. $x \in [9.2, 12.7]$

E. There are no real solutions.
